

SEQUENCE LISTING

<110> Bakaletz, Lauren O.
Cohen, Joseph
Dequesne, Guy
Lobet, Yves

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<141> 2000-12-11

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Met	Ala	Glu	Val		Lys	Tyr	Ala	Asp	Gly 280	Val	Gly	Pro	Ģly	Trp 285	Tyr		
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_		-		,	_	-	tcc			_						972	
Met	Leu	Val		Lys	Glu	Glu	Ser	Lys 295	Pro	Asp	Asn	Ile	Val 300	Tyr.	Thr		
٠.			290					293					500				
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Pro	Leu	Val	Lys	Glu	Leu	Ala	Gln	Tyr	Asn	Val	Glu	Val	His	Pro	Tyr		
		305					310					315					
										تعد				عد نـ ـ		1060	
		_		•			ccc Pro									1068	
1111	320	Arg.	пуэ	Asp	ALA.	325	FIO	Giu	ine.	LITE	330	,ASP,	vai	ASII	OZII		• • •
atg	tat	gat	gcc	tta	ttg	aat	aaa	tca	ggg	gca	aca	ggt	gta	ttt	act	1116	
Met	Tyr	Asp	Ala	Leu	Leu	Asn	Lys	Ser	Gly	Ala	Thr	Gly	Val	Phe	Thr		
335					340					345	•.				350		
cat	ťtc	cca	gat	act	aac	ata	gaa	ttc	tta	aaa	gga	ata	aaa	tcc	at.g	1164	• •
_							Glu									1101	
_				355	_			-	360	-			-	365			
						•						٠.			•		
gcc	acg	tgt	gat	cag	agc	tca	act	agt	ggc	cac	cat.	cac	cat	cac	cat	1212	
Ala	Thr	Cys		Gln	Ser	Ser	Thr		Gly	His	His	His		His	His		
			370				•	375	• .			•	380				•
taat	ctac	raa t	cgat	aago	t to	caaco	gato	л сс					•			1244	
•		,					- 5 :										
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1				5					10	•			•	15	• .		
Ala	Gly	Cys		Ser	His	Ser	Ser		Met	Ala	Asn	Thr		Met	Lys		
C	7	` T	20	710	T10	71 -	114.0	25	C1	Nlά	Co	C1	30	T 0.11	Dwo		
ser							His 40		GIY	Ala		45	ıyı.		:		
Glu							Ala		Ala	Phe	'Ala		Gln				
	50					55					60		•		-		
							•							•	•		
	٠																
																• .	

Tyr 65	.Leu	Glu	Gln	Asp	Leu 70	Ala	Met	Thr	Lys	Asp 75	Gly	Arg	Leu	Val	Val 80
Ile	His	Asp ,	His	Phe 85	Leu	Asp	Gly	Ĺeu	Thr 90	Asp	Val	Ala	Lys	Lys 95	Phe
Pro	His	Arg	His 100	Arg	Lys	Asp	Gly	Arg 105	Tyr	Tyr	Val	Ile	Asp 110	Phe	Thr
Leu	Lys	Glu 115	Ile	Gln	Ser	Leu	Glu 120	Met	Thr	Glu	Asn	Phe 125	Glu	Thr	Lys
Asp	Gly 130	Lys	Gln	Ala	Gln	Val 135	Tyr	Pro	Asn	Arg	Phe 140	Pro	Leu	Trp	Lys
Ser 145	His	Phe	Arg	Ile	His 150	Thr	Phe	Glu	Asp	Glu 155	Ile	Glu	Phe	Ile	Gln 160
Gly	Leu	Glu	Lys	Ser 165	Thr	Gly	Lys	Lys		Gly	Ile	Tyr	Pro	Glu 175	Ile
Lys	Ala	Pro	Trp 180	Phe	His	His	Gln	Asn 185	Gly [.]	Lys	Àsp	Ile	Ala 190	Ala	Glu
Thr	Leu	Lys 195	Val	Leu	Lys	Lys	Tyr 200	Gly	Tyr	Asp	Lys	Lys 205	Thr	Asp	Met
Val	Tyr 210	Leu	Gln	Thr	Phe	Asp 215	Phe	Asn	Glu	Leu	Lys 220	Arg	Ile	Lys	Thr
Glu 225	Leu	Leu	Pro	Gln	Met 230	Gly	Met	Asp	Leu	Lys 235	Leu	Val	Gln	Leu	Ile 240
Ala	Tyr	Thr	Asp	Trp 245	Lys	Glu	Thr	Gln	Glu 250		Asp	Pro	Lys	Gly 255	Tyr
Trp	Val	Asn	Tyr 260	Asn	Tyr	Asp	Trp	Met 265	Phe	Lys	Pro	Gly	Ala 270	Met	Ala
Glu	Val	Val 275	Lys.	Tyr	Ala	Asp	Gly 280	Val	Gly	Pro	Gly	Trp 285	Tyr	Met	Leu
Val	Asn 290	Lys	Glu	Glu	Ser	Lys 295	Pro	Asp	Asn	Ile	Val 300	Tyr	Thr	Pro	Leu
Val 305	Lys	Glu	Leu	Ala	Gln 310	Tyr	Asn	Val	Glu	Val 315	His	Pro	Tyr	Thr	Val 320
Arg	Lys	Asp	Ala	Leu 325	Pro	Glu	Phe	Phe	Thr 330	Asp	Val	Asn	Gln	Met 335	Tyr
Asp	Ala	Leu	Leu 340	Asn	Lys	Ser	Gly	Ala 345	Thr	Gly	Val	Phe	Thr 350	Asp	Phe
Pro	Asp	Thr 355	Gly	Val	Glu	Phe	Leu 360	Lys	Gly	Ile	Lys	Ser 365	Met	Ala	Thr
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acc aaa gat ggc aaa caa gcg caa gtt tat cct aat cgt ttc cct ctt

•																					
	Thr	Lvs	Asp	Glv	Lvs	Gln	Ala	Gln	Val	Tvr	Pro	Asn	Ara	Phe	Pro	Leu	•				
	1111	270		130	-1-				135	-1			J	140							
				100																	
	taa	aaa	tca	cat	ttt	aga	att	cat	acc	ttt	gaa	gat	gaa	att	gaa	ttt	540	•			
			Ser																		
		- 3 -	145					150				-	155								
																		-			•
	atc	caa	ggc	tta	gaa	aaa	tcc	act	ggc	aaa	aaa	gta	ggg	att	tat	cca	588				
-			Gly																		
		160					165					170									
	gaa	atc	aaa	gca	cct	tgg	ttc	cac	cat	caa	aat	ggt	aaa	gat	att	gct	636				
	Glu	Ile	Lys	Ala	Pro	Trp	Phe	His	His	Gln	Asn	Gly	Lys	Asp	Ile	Ala		•			
	175					180					185	•				190					
•	gct	gaa	acg	ctc	aaa	gtg	tta	aaa	aaa	.tat	ggc	tat	gat	aag	aaa	acc	684			٠	
	Ala	Glu	Thr	Leu	Lys	Val	Leu	Lys	Lys	Tyr	Gly	Tyr	Asp	Lys	Lys	Thr					
					195					200					205	•					
	gat	atg	gtt	tac	tta	caa	act	ttc	gat	ttt	aat	gaa	tta	aaa	cgt	atc	732				
	Asp	Met	Val	Tyr	Leu	Gln	Thr	Phe	Asp	Phe	Asn	Glu	Leu	Lys	Arg	Ile					
				210					215					220		×					
																			-		
	aaa	acg	gaa	tta	ctt	cca	caa	atg	gga	atg	gat	ttg	aaa	tta	gtt	caa	780				
	Lys	Thr	Glu	Leu	Leu	Pro	Gln	Met	Gly	Met	Asp	Leu	Lys	Leu	Val	Gln					
			225					230					235				•			•	
			gct			_			-								828				
	Leu		Ala	Tyr	Thr	Asp		Lys	Glu	Thr	Gln		Lys	Asp	Pro	Lys					
		240					245					250									
			tgg -	_					-		-						876				
	_	Tyr	Trp	Val	Asn		Asn	Tyr	Asp	Trp		Phe	Lys	Pro	Gly						
	255					260					265					270					
															. .		004				
	_	-	gaa		_					_							924				
	Met	Ala	Glu	Val		Lys	Tyr	Ala	Asp	_	Val	GTA	Pro	GTĀ	_	Tyr					
					275					280					285						
		.	~++			~				**	~~ +		- + +	~+~	+	204	072				
	_	_	gtt														972				
	Met	ьeu	Val	290	гуѕ	GIU	GIU	ser	ьуs 295	PFO	ASP	ASII	тте	300	ıÀr	THE					
				230					233					300							

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Pro Leu Val Lys Glu Leu Ala Gln Tyr Asn Val Glu Val His Pro Tyr 305 310 315 acc gtg cgt aaa gat gca ctg ccc gag ttt ttc aca gac gta aat caa 1068 Thr Val Arg Lys Asp Ala Leu Pro Glu Phe Phe Thr Asp Val Asn Gln 320 325 330 atg tat gat gcc tta ttg aat aaa tca ggg gca aca ggt gta ttt act 1116 Met Tyr Asp Ala Leu Leu Asn Lys Ser Gly Ala Thr Gly Val Phe Thr 335 340 345 350 gat ttc cca gat act ggc gtg gaa ttc tta aaa gga ata aaa tcc atg 1164 Asp Phe Pro Asp Thr Gly Val Glu Phe Leu Lys Gly Ile Lys Ser Met 355 360 365	
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Asp Phe Pro Asp Thr Gly Val Glu Phe Leu Lys Gly Ile Lys Ser Met 355 - 360 365	
Asp Phe Pro Asp Thr Gly Val Glu Phe Leu Lys Gly Ile Lys Ser Met 355 - 360 365	·
355 - 360 365	**
	*
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Asp Gly Gly Lys Ala Gly Val Ala Leu Val Arg Ser Asp Tyr Lys Phe	
375 380	4
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Tyr Glu Asp Ala Asn Gly Thr Arg Asp His Lys Lys Gly Arg His Thr	
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gca cgt act agt ggc cac cat cac cat cac cat taatctagaa tcgataagct 1313	
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	•
Glu His Thr Leu Glu Ser Lys Ala Leu Ala Phe Ala Gln Gln Ala Asp	•

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Tyr 65	Leu	Glu	Gln	Asp.	Leu 70	Ala	Met	Thr	Lys	Asp 75	Gly	Arg	Leu	Val	Val [°]	
Ile	His	Asp	His	Phe	Leu	Asp	Gly	Leu	Thr 90	Asp	Val	Ala	Lys	Lys 95	Phe	
Pro	His	Arg	His 100	Arg	Lys	Asp	Gly	Arg 105	Tyr	Tyr	Val	Ile	Asp 110	Phe	Thr	
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Met Asp Pro Lys Thr Leu Ala Leu Ser Leu Leu Ala Ala Gly														
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	-													
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	240													
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80 85 90														
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95 100 105	110 .													
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Phe																
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		_														
	-1-	·		-1-												
			150					100								
			+			a++		200	+++		~~+		a++	~~~	+++	540
																340
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Ile	Gln	Gly	Leu	.Glu	Lys	Ser	Thr	Gly	Lys	Lys	Val	Gly	Ile	Tyr	Pro	
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AIG		1111	пси	_	vai	цси	БуЗ	цуз			- y -	1100	шуо		1111	
				195					200					203	•	
											~~~			+		
-	_	-						_								732
Asp	Met	Val	. –	Leu	GIN	Thr	Pne	_	Pne	Asn	GIU	Leu		Arg	lle	
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Lys	Thr	Glu	Leu	Leu	Pro	Gln	Met	Gly	Met	Asp	Leu	Lys	Leu	Val	Gln	
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Leu	Ile	Ala	Tyr	Thr	Asp	Trp	Lys	Glu	Thr	Gln	Glu	Lys	Asp	Pro	Lys	
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			,	~+ +		<b>_</b>	<u> </u>			- ا		a ÷ -		<b>.</b>	+ a +	004
	~			CITT	aaa	τατ	gcc	gat	ggt	gtt	ggc	cca	ggt	cgg	cat	924
	gca					_		_	~ 1		<b>~</b> 1	_	~ 1			
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att gct tat aca gat tgg Leu Ile Ala Tyr Thr Asp Trp 245    ggt tat tgg gta aac tat aat Gly Tyr Tyr Asn Tyr Asn	Thr         Lys         Asp [3]         Lys         Gln [4]         Ala [5]         Gln [4]         Ala [5]         Gln [4]         Ala [5]         Gln [4]         Ala [4]         Gln [4]         Ala [4] <th>Thr         Lys         Asp         Gly         Lys         Gln         Ala         Gln         Val           tgg         aaa         tca         cat         ttt         aga         att         cat         acc           Trp         Lys         Ser         His         Phe         Arg         Ile         His         Thr           atc         caa         ggc         tta         gaa         aaa         tcc         act         ggc           Ile         Gln         Gly         Leu         Glu         Lys         Ser         Thr         Gly           gaa         atc         aaa         gca         cct         tgg         ttc         cac         cat           glu         tle       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        Gln [3]         Ala [3]         Val [3]         Tyr [3]           tgg [3]         aaa [2]         ttt [3]         aga [3]         att [2]         acc [4]         ttt [3]           trp [1]         Lys [2]         Ser [4]         Phe [4]         Arg [1]         His [7]         Thr [7]         Phe [4]           atc [3]         gg [4]         Leu [3]         Lys [3]         Ser [4]         Thr [6]         Lys [4]         Aga [4]	Thr         Lys         Asp [3] by [3]	Thr         Lys         Asp [Asp [Asp [Asp [Asp [Asp [Asp [Assp [Asp [A	Thr         Lys         Aspectation         Gly lass         Lys         Gly lass         Lys         Ala lass         Clu lass         Tyr         Pro Asn Arg lass         Arg lass         Arg lass         Tyr         Pro Aspectation         Arg lass         Arg las	Thr         Lys         Asp [Ash 130]         Lys         Gln         Ala         Gln         Val         Tyr         Pro         Asn         Arg         Phe 140           tgg         aaa         tca         cat         ttt         aga         att         cat         ttt         gaa         att         cat         gac         ttt         gaa         att         cat         gaa         acc         ttt         gaa         att         cat         gaa         aaa         ttt         gaa         aatt         cat         ggc         aaa         ggg         att         ggg	Thr         Lys         Asp [3] gly [3] gly [3] gln [4] gln [4] gln [4] gln [4] gly [	tgg aaa tca cat ttt aga att cat cat ffr aga att cat acc ttt gaa gat gaa att gaa ttt Trp Lys Ser His Phe Arg Ile His Thr Phe Glu Asp Glu Ile Glu Phe 145

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					ggt											1212
Asp	GLY	GLY	Lys 370	Ата	Gly	val	Ата	ьеи 375	vai	Arg	ser	Asp	380	гуѕ	ьeu	
			370					575					300			
tac	aat	aaa	aat	agt	agt	agt	aat	agt	act	ctt	aaa	aac	cta	ggc	gaa	1260
Tyr	Asn	Lys	Asn	Ser	Ser	Ser	Asn	Ser	Thr	Leu	Lys	Asn	Leu	Gly	Glu	
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		•				•										
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HIS	400	Arg	АТА	Arg	Ala	мес 405	Asp	GIY	GIY	ьys	410	GTA	vaı	Ата	Leu	
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Val	Arg	Ser	Asp	Tyr	Lys	Phe	Tyr	Glu	Asp	Ala	Asn	Gly	Thr	Arg	Asp	
415					420					425					430	
,																
	_			_	cac		-	-		_						1404
HIS	ьys	гуѕ	стЛ	Arg 435	His	rnr	нта	Arg	440	ser	сτλ	nıs	nıs	H1S	пlS	
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His	His															

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Glu His Thr Leu Glu Ser Lys Ala Leu Ala Phe Ala Gln Gln Ala Asp
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Tyr Leu Glu Gln Asp Leu Ala Met Thr Lys Asp Gly Arg Leu Val Val
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                                       75
Ile His Asp His Phe Leu Asp Gly Leu Thr Asp Val Ala Lys Lys Phe
Pro His Arg His Arg Lys Asp Gly Arg Tyr Tyr Val Ile Asp Phe Thr
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Leu Lys Glu Ile Gln Ser Leu Glu Met Thr Glu Asn Phe Glu Thr Lys
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Asp Gly Lys Gln Ala Gln Val Tyr Pro Asn Arg Phe Pro Leu Trp Lys
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Ser His Phe Arg Ile His Thr Phe Glu Asp Glu Ile Glu Phe Ile Gln
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Gly Leu Glu Lys Ser Thr Gly Lys Lys Val Gly Ile Tyr Pro Glu Ile
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Lys Ala Pro Trp Phe His His Gln Asn Gly Lys Asp Ile Ala Ala Glu
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Thr Leu Lys Val Leu Lys Lys Tyr Gly Tyr Asp Lys Lys Thr Asp Met
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Val Tyr Leu Gln Thr Phe Asp Phe Asn Glu Leu Lys Arg Ile Lys Thr
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Glu Leu Leu Pro Gln Met Gly Met Asp Leu Lys Leu Val Gln Leu Ile
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Val Lys Glu Leu Ala Gln Tyr Asn Val Glu Val His Pro Tyr Thr Val
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Arg Lys Asp Ala Leu Pro Glu Phe Phe Thr Asp Val Asn Gln Met Tyr
                                     330
                325
Asp Ala Leu Leu Asn Lys Ser Gly Ala Thr Gly Val Phe Thr Asp Phe
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Pro Asp Thr Gly Val Glu Phe Leu Lys Gly Ile Lys Ser Met Asp Gly
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Gly Lys Ala Gly Val Ala Leu Val Arg Ser Asp Tyr Lys Leu Tyr Asn
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Lys Asn Ser Ser Ser Asn Ser Thr Leu Lys Asn Leu Gly Glu His His
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Arg Ala Arg Ala Met Asp Gly Gly Lys Ala Gly Val Ala Leu Val Arg
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Ser Asp Tyr Lys Phe Tyr Glu Asp Ala Asn Gly Thr Arg Asp His Lys
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gta cta gca ggt tgt agc agc cat tca tca aat atg gcg aat acc caa
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Val Leu Ala Gly Cys Ser Ser His Ser Ser Asn Met Ala Asn Thr Gln
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	-				Glu												
	AIG	лэр	65	пец	Oru	0111	1150	70	111.0		****	2,0	75	0-1			
			0.5					, 0					, ,				
									~~+	~~~	++~	: 2 <b>0</b> +	ant.	a++	aca	222	348
		- ,			gat												
	Val		TTE	HIS	Asp.	HIS		Leu	Asp	GTÀ	Leu		Asp	vai	Ald	гуѕ	
		80				,	85					90		•			
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					cgt												396
	Lys	Phe	Pro	His	Arg	His	Arg	Lys	Asp	Gly	Arg	Tyr	Tyr	Val	Ile		
	95	÷ę	ì		•	100					105			,		110	•
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	ttt	acc	tta	aaa	gaa	att	caa	agt	tta	gaa	atg	aca	gaa	aac	ttt	gaa	444
	Phe	Thr	Leu	Lys	Glu	Ile	Gln	Ser	Leu	Glu	Met	Thr	Glu	Asn	Phe	Glu .	
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		116	гуѕ	Ата	PIO			птэ	птэ	GIII		сту	БУЗ	Asp	116		
	175					180	•		•	÷	185					190	
							7.5		2.5	<u>.</u>	· <u>·</u>	. <u>1</u>	· • •_ · ·			المشاعد المساعة	60.4
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• •		240				٠	245					250								
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	335	,				340					345					350			,	
	F			~ - ±		~ ~ -	~	~	 .	++ -		~~-	- + -	222	+	~ ~ ~	116	i	•	٠.
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											Arg									
		1	~-1	_, 5		~ -1					J		- E-	_ _	1-					

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37	· O	37	75	380
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tac	aat	aaa	aat	agt	aqt	agt	aat	aqt	act	ctt	aaa	aac	cta	ggc	gaa	1260
				_	-	_					Lys					
- 1 -		385					390					395		•		
•		500										,			•	
cat	Cac	ana	αca	cat	acc	ato	gat	aat	aac	aaa	gca	aat	at.t.	act.	tta	1308
											Ala					
1113	400	ALG	AIG	my	7114	405	nsp	O.L.y	<u></u>	Lyo	410	011	• • •		200	
	400					403										•
	a~+	+ -+	~~+	+-+	222	+++	t > t	~~~	ast		220	aat	act	cat	~ a c	1356
-			_					_	_		aac					1550
	Arg	Ser	Asp	Tyr	_	Pne	туг	GIU	Asp		Asn	GTĀ	Inr	Arg		
415					420					425					430	
											cgt					1404
His	Lys	Lys	Gly	Arg	His	Thr	Ala	Arg	Thr	Ser	Arg	Ser	Asp	Tyr	Lys	
				435					440					445		
ttc	tac	gat	aat	aaa	cgc	atc'	gat	agt	act	agt	ggc	cac	cat	cac	cat	1452
Phe	Tyr	Asp	Asn	Lys	Arg	Ile	Asp	Ser	Thr	Ser	Gly	His	His	His	His	
			450	٠.				455					460		. •	
												1		•		
cac	cat	taat	ctac	gaa t	cgat	aago	ct to	cgaco	gate	g cc						1490
His	His							•								
		*								-					·	
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<210> 81

<211> 464

<212> PRT

<213> Haemophilus influenzae.

<400> 81

 Met
 Asp
 Pro
 Lys
 Thr
 Leu
 Ala
 Leu
 Ser
 Leu
 Leu
 Ala
 Ala
 Ala
 Gly
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 Leu

 Ala
 Gly
 Cys
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 His
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 Met
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 Ser
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	Ile	His	Asp	His		Leu	Asp	GLY			Asp	vaı	Ala	гÀг		Pne				
				1	85	_		0.1		90	-		- 1	.	95	ml				
	Pro	His	Arg		Arg	Lys	Asp	GLy		Tyr	Tyr	Val	TTE		Phe	Thr				
	_			100		0	· ·		1.05	m b	C1	71	Dh.a	110	መኤኤ	T	•			
	Leu	Lys		TTe	GIn	Ser	Leu		Met.	Thr	GIU	Asn		GIU	Thr	гàг				
		0. 3	115	01		61	** - 1	120	D	`7	7	Dh.a	125	T a	П.	T				
	Asp	Gly	гÀг	GIN	Ата	GIN	135	Tyr	PIO	ASII	Arg	140	PIO	ьeu	11D	гуз				
	C	130 His	Dha	7	T10	uio		Dho	Clu	7 on	Clu		Glu	Pho	Tla	Gln				
,		HIS	Pne	ĄĽĠ	TTE	150		File	Giu	ASP.	155	116	Gru	rne	116	160				
	145	Leu	Clu	T ***	Sor		•	Tue	Luc	Val		Tle	ጥኒኒዮ	Pro	Glu					
	СТУ	ьеи	GIU	гЛS	165		GIY	пуз	пуз	170	Gry	116		110	17.5					
•	Luc	Ala	Dro	Trò		Hic	Hic	Gln	Δsn		T.vs	Asn	Tle	Ala					÷	
	цуз	AIA	110	180	1116	1113	1113	0111	185	O± y	БуС	пор	110	190		010				
	Thr	Leu	Lvs		Leu	Lvs	Lvs	Tvr		Tvr	Asp	Lvs	Lvs		Asp	Met				
	1111	Lou	195		,	-15	-1-	200		- 4 -		-1-	205							
	Val	Tyr		Gln	Thr	Phe	Asp			Glu	Leu	Lvs		Ile	Lvs	Thr	,			
		210					215					220			-3-				٠.	
,	Glu	Leu	Leu	Pro	Gln	Met		Met	Asp	Leu	Lys		Val	Gln	Leu	Ile				
	225					230			•		235					240				٠.
•		Tyr	Thr	Asp	Trp	Lys	Glu	Thr	Ğln	Glu	Lys	Asp	Pro	Lys	Gly	Tyr				
				_	245	_				250			•		255		•		•	
	Trp	Val	Asn	Tyr	Asn	Tyr	Asp	Trp	Met	Phe	Lys	Pro	Gly	Ala	Met	Ala				
				260					265					270						
	Glu	Val	Val	Lys	Tyr	Ala	Asp	Gly	Val	Gly	Pro	Gly	Trp	Tyr	Met	Leu				
			275	•				280			•	•	285							
	Val	Àsn	Lys	Glu	Glu	Ser	Lys	Pro	Asp	Asn	Ile	Val	Tyr	Thr	Pro	Leu				
•		290				•	295					300						•	• .	
	Val	Lys	Glu	Leu	Ala	Gln	Tyr	Asn	Val	Glu	Val	His	Pro	Tyr	Thr	Val				
	305					310					315					320				-
	Arg	Lys	Asp	Ala	Leu	Pro	Glu	Phe	Phe	Thr	Asp	Val	Asn	Gln		Tyr				
			•		325					330					335					
	Asp	Ala	Leu		Asn	Lys	Ser	Gly	Ala	Thr	Gly	Val	Phe		Asp	Phe				
				340					345					350				•	• •	
	Pro	Asp		-	Val	Glu	Phe		Lys	Gly	Ile	Lys		Met	Asp	Gly				
•		1	355		•			360					365		_	_				
	Gly	Lys		Gly	Val	Ala		Val	Arg	Ser	Asp		Lys	Leu	Tyr	Asn				
	_	370		_	_	_	375	m1	-			380	G1	G1		112 -				
		Asn	ser	ser	Ser		ser	Thr	ьeu	ьуѕ		ьeu	стА	GIU	нlS					
	385	-	Th === =	70 1 -	 M	390	C1	C1	T •	71-	395	`tz=1		T 0:-	. W≃1	400		•		
	Arg	Äla	Arg	ATā	Met 405	ASP	стА	стА	гуѕ	410	стА	val	AId	ьеи	415					
1.	80~	Asp	ጥ፡፡ አ	Luc		ጥህን	Glu	Aen	د ۱ ۵		G1 v	Thr	Ara	Asn						
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